

Metadata for Wupatki National Monument, Field Plots Data Base for Vegetation Mapping

Identification_Information:

Citation:

Citation_Information:

Originator: Kathryn Thomas, Monica Hansen (comp.)

Publication_Date: 2004

Title: Field Relve Plots: Wupatki National Monument Vegetation Mapping Project

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage: <http://biology.usgs.gov/npsveg/wupa/fielddata.html>

Larger_Work_Citation:

Citation_Information:

Originator: M. Hansen, J. Coles, K.A. Thomas, D. Cogan, M. Reid, J. Von Loh, K. Schultz

Publication_Date: 2004.

Title: USGS-NPS National Vegetation Mapping Program: Wupatki National Monument, Arizona, Vegetation Classification and Distribution, Final Project Report

Geospatial_Data_Presentation_Form: report

Description:

Abstract: This spatial dataset in ESRI Coverage format maps field releve plot locations for the vegetation classification and descriptions of the vegetation map at Wupatki National Monument and in the surrounding environs as part of the National Vegetation Mapping Program.

Purpose: This data set was developed to locate the field points used for classification and description of vegetation types for NVCS associations and map labels used to develop the vegetation map at Wupatki National Monument and the surrounding environs.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 199906

Ending_Date: 199908

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned.

Spatial_Domain:

Description_of_Geographic_Extent: Wupatki National Monument and the environs.

Bounding_Coordinates:

West_Bounding_Coordinate: -111.554507

East_Bounding_Coordinate: -111.266403

North_Bounding_Coordinate: 35.631018

South_Bounding_Coordinate: 35.495543

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: Vegetation

Theme_Keyword: Relve

Theme_Keyword: Field Plots

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: North America

Place_Keyword: United States

Place_Keyword: Southwestern United States

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Place_Keyword: Arizona

Place_Keyword: Coconino County

Place_Keyword: Wupatki National Monument

Access_Constraints: Data are available after research results have been published.

Use_Constraints: This data was compiled for government use and represent the results of data collection/processing for a specific USGS/BRD activity/project. The USGS/BRD makes no representation as to the suitability or accuracy of this data for any other purpose and disclaims any liability for errors that the data may contain. As such, it is only valid for its intended use, content, time, and accuracy specifications. While there are no explicit constraints on the use of this data, please exercise appropriate and professional judgment in the use and interpretation of this data. Acknowledgement of the originating agencies would be appreciated in products derived from this data.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Kathryn A. Thomas

Contact_Organization: USGS-SBSC-Colorado Plateau Research Station

Contact_Position: Project Leader, Vegetation Scientist

Contact_Address:

Address_Type: mailing and physical address

Address: U.S. Geological Survey, Southwest Biological Science Center, Colorado Plateau Research Center, 2255 N. Gemini Drive, Building 4

City: Flagstaff

State_or_Province: Arizona

Postal_Code: 86001

Country: USA

Contact_Voice_Telephone: 928-556-7327

Contact_Facsimile_Telephone: 928-556-7500

Contact_Electronic_Mail_Address: Kathryn_A_Thomas@usgs.gov

Hours_of_Service: 8:00am to 5:00pm (Arizona time), Monday through Friday

Contact_Instructions: E-mail

Browse_Graphic:

Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/wupa/images/wupaplot.jpg>

Browse_Graphic_File_Description: 655 kbyte file showing vegetation associations and locations of vegetation plot samples

Browse_Graphic_File_Type: JPG

Native_Data_Set_Environment: Microsoft Windows 2000 Version 5.0 (Build 2195) Service Pack 4; ESRI ArcCatalog 8.2.0.700

Cross_Reference:

Citation_Information:

Originator: Kathryn Thomas, U.S. Geological Survey, Southwest Biological Science Center, Colorado Plateau Research Station, Monica Hansen, U.S. Geological Survey, Southwest Biological Science Center, Colorado Plateau Research Station, Janet Coles, Bureau of Reclamation, Remote Sensing and Geographic Information Group, Dan Cogan, Bureau of Reclamation, Remote Sensing and Geographic Information Group

Publication_Date: 2004

Title: USGS-NPS Vegetation Mapping Program: Wupatki National Park, Arizona, Vegetation Classification and Distribution. Technical Report FY 2004.

Edition: USGS Biological Resources Division Technical Report

Geospatial_Data_Presentation_Form: report

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: None

Taxonomic_Keywords: plant communities

Taxonomic_Classification:

Taxon_Rank_Name: Kingdom

Taxon_Rank_Value: Plantae

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Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report: Dataset was quality checked in a spatial environment and through reviewing data entry.

Logical_Consistency_Report: was quality checked by visually inspecting the dataset in a geographic information system (GIS).

Completeness_Report: Data collection is complete with no exclusions

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: Visual inspection was performed on the dataset to ensure accuracy of all sampling locations

Lineage:

Process_Step:

Process_Description: Two CPRS plant ecologists conducted field surveys from mid-June thru mid-August 1999 and sampled 108 field plots in the project area. A gradsect sampling design was used to divide the park into 'environmental types' to stratify for field sampling. The gradsect was developed using terrain types and four aspect and elevation categories developed from a Digital Elevational Model (DEM). The result was 40 unique 'environmental types'. A total of over 100 potential plot locations were allocated based on the percent of the unique environmental types and were used to guide sampling. Within our environmental types we initially determined placement of plots based on road accessibility and land ownership access. Typically we measured 1,000m² circular relevés; however, in areas of dense vegetation we would lower our plot size to 400m². At the center of these relevés we measured the UTM's via a GPS unit. Several environmental types were inaccessible due to extensive sharp lava beds causing high safety risks for the field crew. The implementation of laser binoculars, a new technology, was lent to the program from Karl Brown of the Center of Biological Informatics (CBI). The binoculars provide locality information in UTM's by targeting a location. The laser binoculars transfer information in UTM's by triangulation, using distance and azimuth of targeted locations in conjunction with the GPS Plugger system. Additional laser plots were completed in SUCR until all environmental types within the gradsect sampling area were completed. All releve plot codes and UTMS were results entered into a table in a Microsoft Access database. The Microsoft Access database table was then converted to a text file and formatted as an ArcInfo generate file. The points coverage was then created using ArcToolbox generate.

Source_Used_Citation_Abbreviation: C:\DOCUME~1\hwn\LOCALS~1\Temp\xml82.tmp

Process_Date: 1999 to 2003

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Kathryn Thomas

Contact_Organization: USGS-SBSC-Colorado Plateau Research Station

Contact_Position: Project leader

Contact_Address:

Address_Type: mailing and physical address

Address: U.S. Geological Survey, Southwest Biological Science Center, Colorado Plateau Research Center,
2255 N. Gemini Drive

City: Flagstaff

State_or_Province: Arizona

Postal_Code: 86001

Country: USA

Contact_Voice_Telephone: 928-556-7327

Contact_Facsimile_Telephone: 928-556-7500

Contact_Electronic_Mail_Address: Kathryn_A_Thomas@usgs.gov

Hours_of_Service: 8:00am to 5:00pm (Arizona time), Monday through Friday

Contact_Instructions: E-mail

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

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Point_and_Vector_Object_Count: 217
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point
Point_and_Vector_Object_Count: 4

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 12

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.999600

Longitude_of_Central_Meridian: -111.000000

Latitude_of_Projection_Origin: 0.000000

False_Easting: 500000.000000

False_Northing: 0.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000064

Ordinate_Resolution: 0.000064

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: wupa_releve.pat

Entity_Type_Definition: This is a listing of all releve plot locations within the Wupatki National Monument project area

Entity_Type_Definition_Source: User defined

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: AREA

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Area is always zero for point coverages. Values are automatically generated.

Attribute:

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Attribute_Label: PERIMETER

Attribute_Definition: Perimeter of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Perimeter is always zero for point coverages. Values are automatically generated.

Attribute:

Attribute_Label: WUPA_RELEVE#

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 1

Range_Domain_Maximum: 217

Attribute_Units_of_Measure: number

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: WUPA_RELEVE-ID

Attribute_Definition: User-defined feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 1

Range_Domain_Maximum: 217

Attribute_Units_of_Measure: number

Attribute:

Attribute_Label: X-COORD

Attribute_Definition: The geographical coordinates for UTM Easting (x-coordinate) collected at each accuracy assessment field point in NAD83 Zone12 using Garmin 45XL.

Attribute_Definition_Source: The Universal Transverse Mercator (UTM) Grid USGS Fact Sheet 077-01 (August 2001)(<<http://mac.usgs.gov/mac/isb/pubs/factsheets/fs07701.html>>)

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 449791

Range_Domain_Maximum: 475838

Attribute_Units_of_Measure: meters

Attribute:

Attribute_Label: Y-COORD

Attribute_Definition: The geographical coordinates for UTM Northing (y-coordinate) collected at each accuracy assessment field point in NAD83 Zone12 using Garmin 45XL.

Attribute_Definition_Source: The Universal Transverse Mercator (UTM) Grid USGS Fact Sheet 077-01 (August 2001)(<<http://mac.usgs.gov/mac/isb/pubs/factsheets/fs07701.html>>)

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 3928140

Range_Domain_Maximum: 3943057

Attribute_Units_of_Measure: meters

Attribute:

Attribute_Label: PLOT_CODE

Attribute_Definition: Plot releve code developed as a unique identifier for the center of each releve point.

Attribute_Definition_Source: User Defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: WU-001

Range_Domain_Maximum: WU-209

Attribute_Units_of_Measure: number

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Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: U.S. Geological Survey, Center for Biological Informatics, MS 302, Room 8000, Building 810, Denver
Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Resource_Description: Downloadable Data

Distribution_Liability: Although these data have been processed successfully on a computer system at the USGS-SBSC-Colorado Plateau Research Station, no warranty expressed or implied is made regarding the accuracy or utility of these data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any warranty. This disclaimer applies both to individual use of these data and aggregate use with other data. It is strongly recommended that these data be directly acquired from a U.S. Geological Survey server, and not indirectly through other sources that may have changed the data in some way. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data. The U.S. Geological Survey and the SBSC-Colorado Plateau Research Station shall not be held liable for improper or incorrect use of these data described and/or contained herein.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: HTML

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <http://biology.usgs.gov/npsveg/wupa/fielddata.html>

Fees: none

Metadata_Reference_Information:

Metadata_Date: 20040211

Metadata_Review_Date: 20050622

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address: U.S. Geological Survey, Center for Biological Informatics, MS 302, Room 8000, Building 810, Denver
Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: Content Standard for Digital Geospatial Metadata, 1998, Part 1: Biological Data Profile,

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1999 (FGDC-STD-001.1-1999)

Metadata_Standard_Version: FGDC-STD-001-1999